

Meet the Presenters

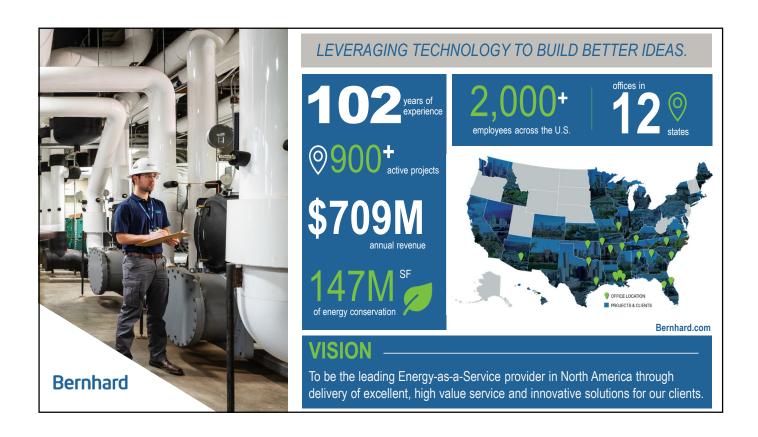


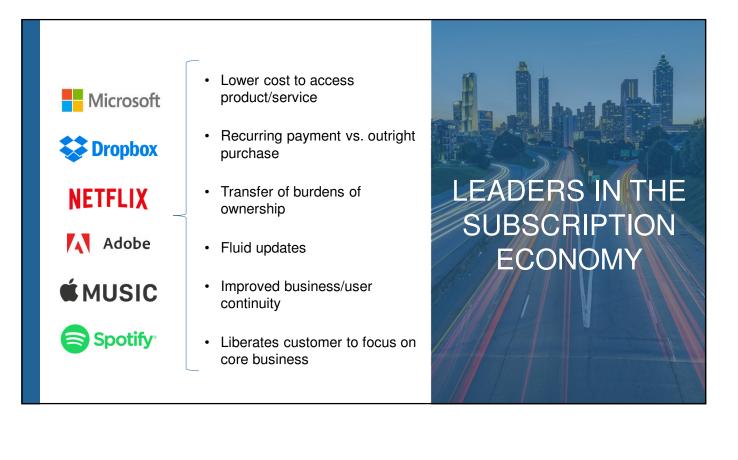
JEFF SWANN Senior Vice President, EaaS 501-823-4121 | jswann@bernhard.com



KEVIN PATTERSON Director, Tax and Accounting

501-920-6546 | kpatterson@bernhard.com





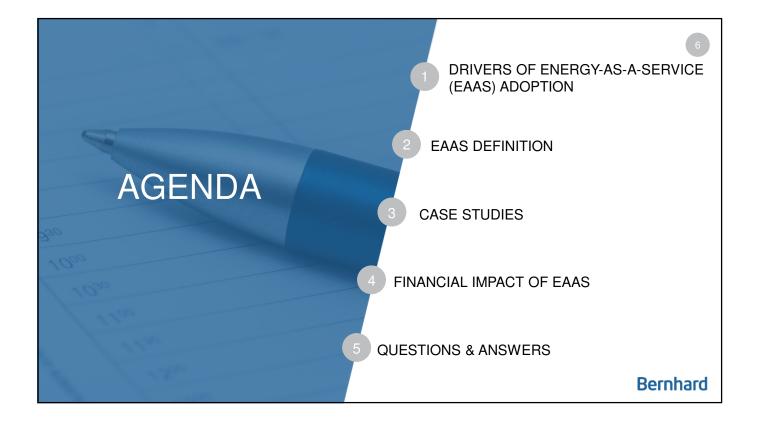
POLLING QUESTION:

What is the most appealing attribute of the subscription economy?

- 1. Lower cost to access product/service
- 2. Recurring payment vs. outright purchase 6. Ability to focus on core business
- 3. Transfer of burdens of ownership
- 4. Fluid updates

- 5. Improved business/user continuity
- 7. Guaranteed outcome

	What is the most appealing attribute of the subscription economy?	Î
	Text Lower cost to access productiservice	
Text your	Text 2 Rocurring payment vs. outright purchase	
vote to	Text 3 Transfer of burdens of ownership	
(808) 745-1404	Text Fluid updates	
	Text 5 Improved business/user continuity	
	Text Ability to focus on core business	
	> X Hole Hole Sector	×
		2.1



LEARNING OBJECTIVE #1

Gain an understanding of the market forces impacting the health care industry and how those are driving Energy-as-a-Service adoption.

DRIVERS OF EAAS ADOPTION



HEALTHCARE

"The sector has shown considerable resiliency over the years, weathering significant events such as the Great Recession and legislative changes to funding, however, the coronavirus presents entirely new and fundamental challenges for the sector in the short term in the form of volume and revenue disruption, and over the medium to longer term with expected deterioration of individual provider payor mixes and possible changes in the behavior of healthcare consumers."

- Fitch, July 2020

Rising Costs: War On Talent "UAMS currently has about 360 vacancies for US Crime + Justice Energy + Envir health care providers, including 230 This Arkansas hospital is so short on nurses in this vacancies just for nurses, Patterson said. newest Covid-19 surge, it's offering a \$25,000 signing UAMS is so desperate to find nursing staff bonus By Amir Vera, Martin Savidge, Maria Cartaya and Jason Hanna, CNN ③ Updated 12:25 AM ET, Thu August 5, 2021 that it is willing to pay signing bonuses of as much as \$25,000." "It's a workers' labor market right now and increasingly so for blue-collar workers," said THE WALL STREET JOURNAL. Becky Frankiewicz, president of staffing firm Tight Labor Market Returns the Upper Hand to

American Workers

ManpowerGroup Inc.'s North America operations. "We have plenty of demand and not enough workers."

Bernhard

Rising Costs: Business Continuity

The New Hork Times

'Such Dire Straits': Chaos Unfolds in Texas Hospitals

The state's power failure has plunged some hospitals into crisis, even as they are still reeling from the coronavirus pandemic.

SEPA United States Environmental Protection

Climate Change Indicators: Weather and **Climate**

Rising global average temperature is associated with widespread changes in weather patterns. Scientific studies indicate that extreme weather events such as heat waves and large storms are likely to become more frequent or more intense with human-induced climate change. This chapter focuses on observed changes in temperature. precipitation, storms, floods, and droughts.

Shreveport area hospitals without water due to extreme winter weather



California wildfires continue to impact hospitals, other healthcare facilities as containment inches higher HEALTHCARE FI

While some hospitals have resumed some level of operation, at least one has not and skilled nursing facilities have been permanently evacuated.

Rising Costs: Energy Transition

Stakeholder Expectations

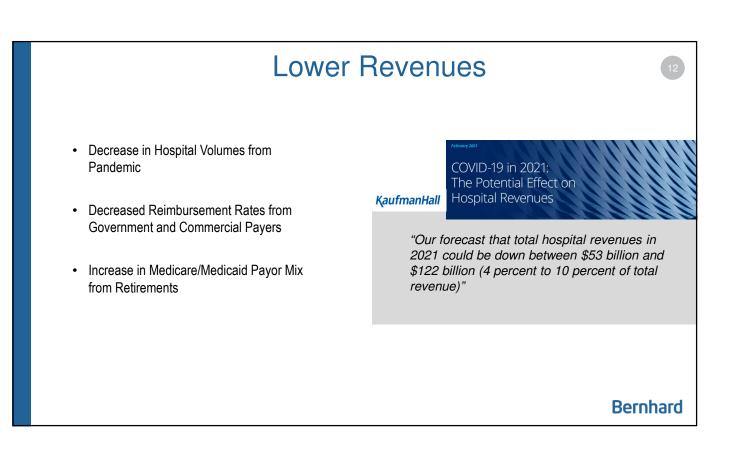
- Citizens: More than six in ten Americans say they are at lease "somewhat worried" about global warming.
- Employees: Employees are pushing employers to be more aggressive in to combat climate change.
- Investors: Investors are increasingly demanding greater accountability from boards.
- Consumers: 42% of millennials said they have begun or deepened a business relationship because they perceive a company's produces or services to have a positive impact on society and/or the environment.

Moving Organizational energy use towards 100 percent renewables – aspiration or destination?

Deloitte<mark>.</mark>

Insights from the Deloitte 100 Percent Renewable Transition Survey

Contributing about 10 percent of US carbon emissions and 9 percent of non-greenhouse gas air pollutants means the health care sector may also be contributing to the adverse health impacts of climate change and air pollution.15 Many health care organizations see this as inconsistent with their overall mission to promote health, and to medical students' oath to "First, do no harm." As a result, many are pursuing broad sustainability agendas, including goals to source more renewable energy.



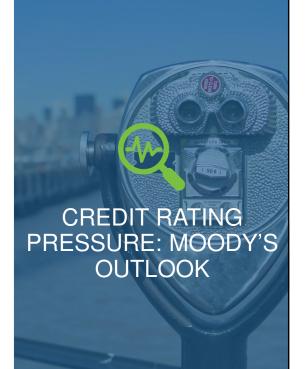
- Fighting for the ever-shrinking capital dollar...
- Competing against other needs: Medical Tech, IT, Clinical Programs, Cosmetic Upgrades...
- Difficulty in prioritizing capital renewal and strategic planning
- Average age of U.S. Hospital power plant is 40+ year old.

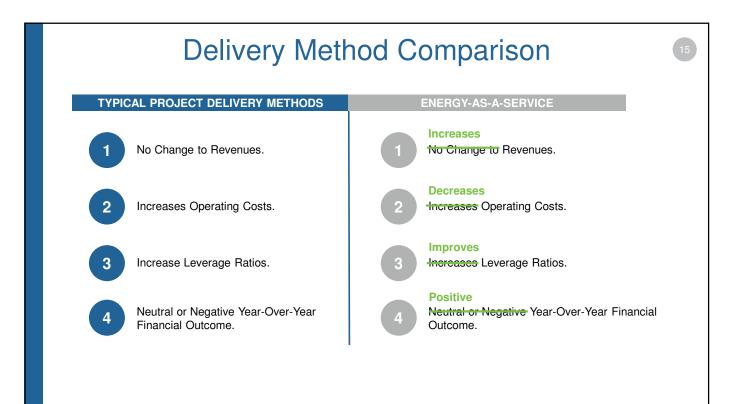


-Advocate Aurora Heath THE NEW ECONOMY FOR BUILDING INFRASTRUCTURE // 404109086-1

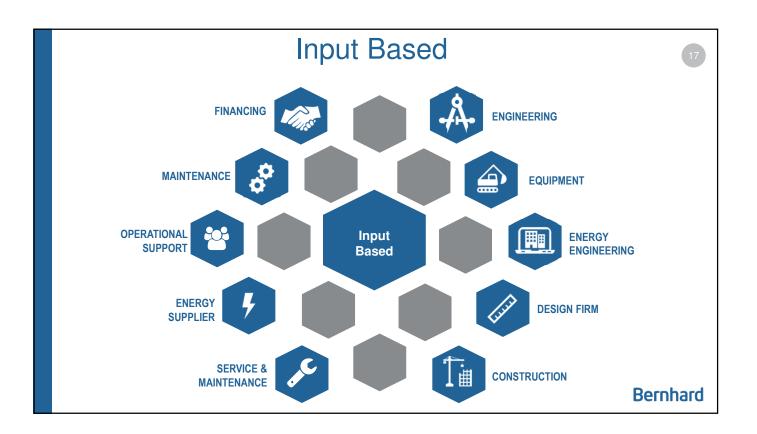
- Median operating cash flow will drop 10%-15% in 2021 from Moody's annualized thirdquarter 2020 estimate
- Softer demand for certain services due to coronavirus fears will continue until pandemic ends
- The outlook for the US not-for-profit and public healthcare sector in 2021 remains negative

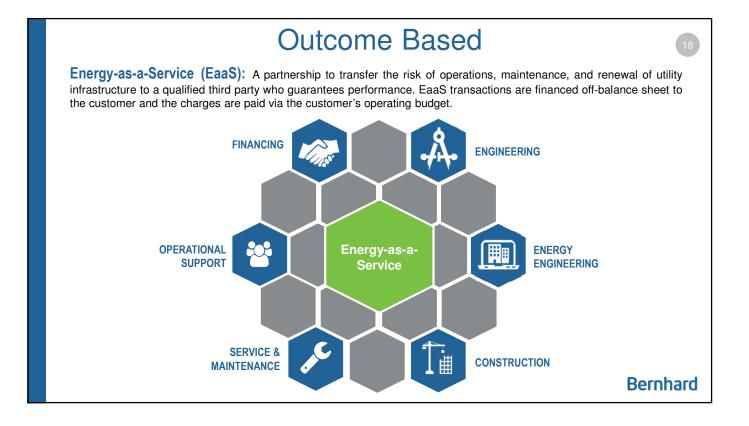
-Moody's the NEW ECONOMY FOR BUILDING INFRASTRUCTURE // 404109086-1

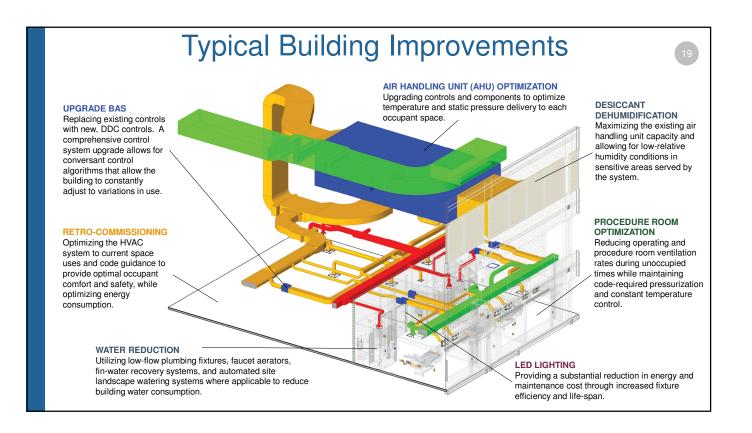












Typical Plant Improvements

VARIABLE PRIMARY PUMPING

Eliminating waste over-pumping and increasing temperature control to maximize chiller efficiency during part-load conditions. This includes the installation of dedicated chiller water pumps with variable speed drives (VSDs) for each chiller, conversion of 3-way control valves to 2-way type, and removal of flow balancing devices to eliminate wasted pressure drop.

CENTRALIZED HEAT EXCHANGER(S)

Eliminating steam distribution by consolidate heating water production at the plant for reduced maintenance and capital renewal > costs while enabling use of the Heat Pump Chiller Heater and highefficiency heating water boilers.

EFFICIENT CHILLERS

Maximizing system efficiency potential by deploying new chiller technology, including magnetic bearings, variable speed compressors, and low-GWP refrigerants.

INSTALL HEAT PUMP CHILLER HEATER

Reclaiming normally-wasted condenser water heat at a higher heat value that can be used for building heating requirements.

BOILER STACK ECONOMIZERS

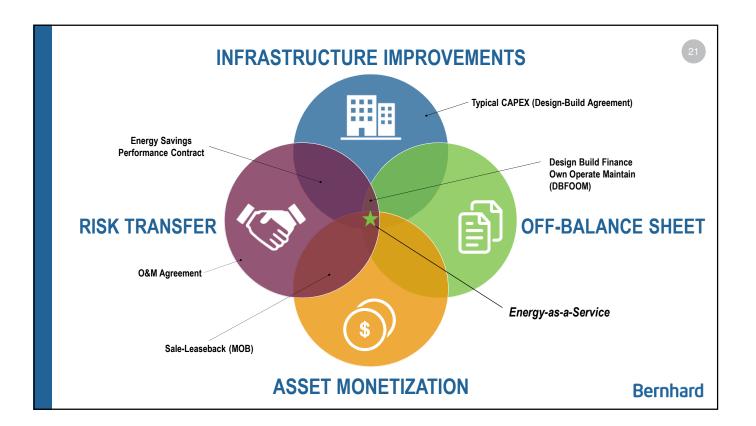
Reclaiming waste flue gas heat for pre-heating feedwater and increasing overall boiler system efficiencies.

STAFF TRAINING

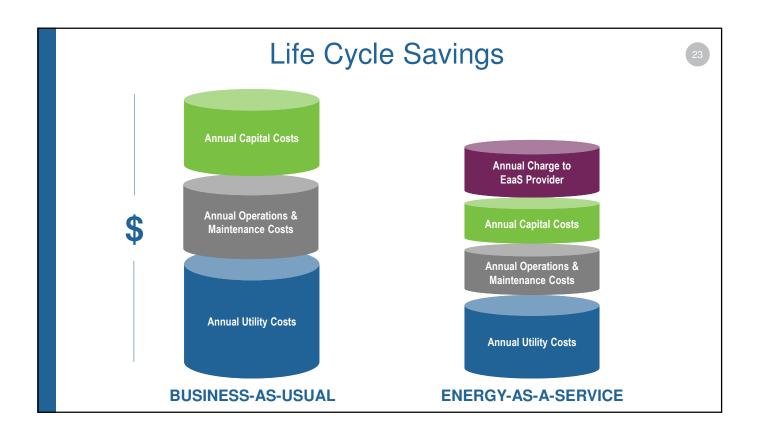
Teaching building and plant operators to understand and optimize complex buildings systems to sustain operational excellence.

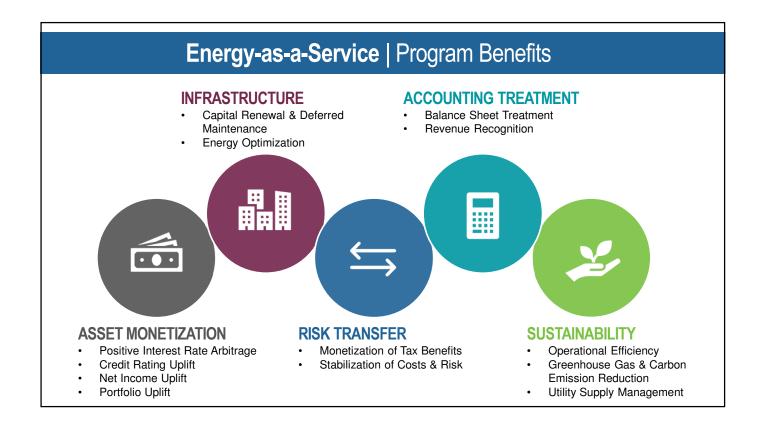
COOLING TOWER VFDs

Increasing tower water system part-load efficiencies by maximizing condenser water flow rates while minimizing cooling tower fan energy, and lowering waste water drift.



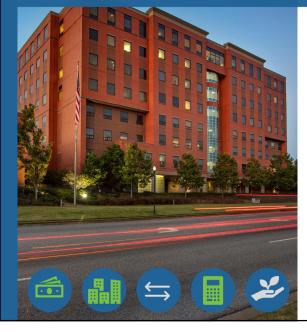








East Alabama Medical Center Opelika, AL





\$830,000 annual energy cost savings

ENERGY ASSET CONCESSION

Upgrade Chilled Water • Upgrade Steam • Upgrade BAS • Upgrade Hot Water • Retro-Commissioning • OR Upgrades Lighting • Heat Pump Chiller Heater • Remote Monitoring • Operator Training

> **30** YEAR TERM





\$40M

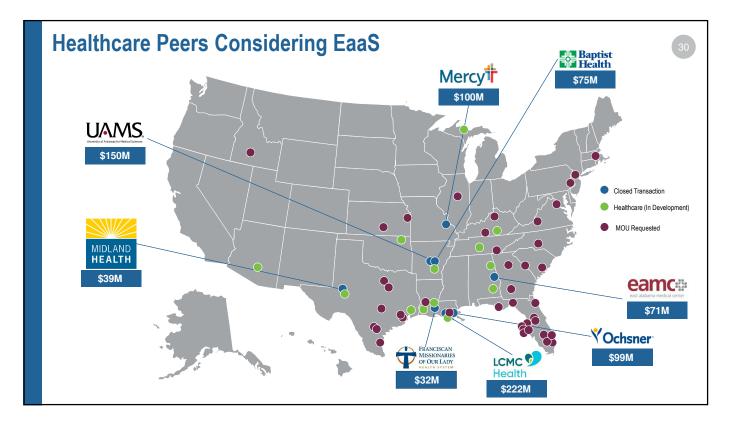




POLLING QUESTION:

A hospital needs to renew aging infrastructure, which option would you choose? A hospital needs to renew aging infrastructure, which option would you choose? Text your vole to (808) 745-1404
Text 2 Option 1
Text 2 Option 2
Text 3 Option 3

Item	Option 1	Option 2	Option 3
Upfront Cost	\$20,000,000	\$0	\$0
Source of Capital	Equity	Debt	Third Party
Provider of Improvements	Local Contractor	Local Contractor	National EaaS Firm
Revenues	N/A	N/A	+
Leverage Ratio	+	+	-
Operating Margin	+	-	-
Net Income	N/A	-	+
Days Cash on Hand	-	-	+
O&M Transfer	No	No	Yes
Efficiency Guarantee	No	No	Yes
Performance Standards	No	No	Yes





What is a Concession?



OPERATING LEASE OF ENERGY ASSETS



TRANSFER OF OPERATION & MAINTENANCE

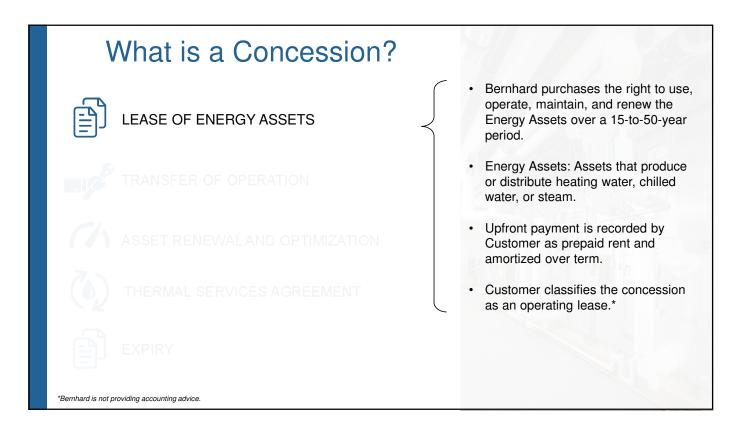


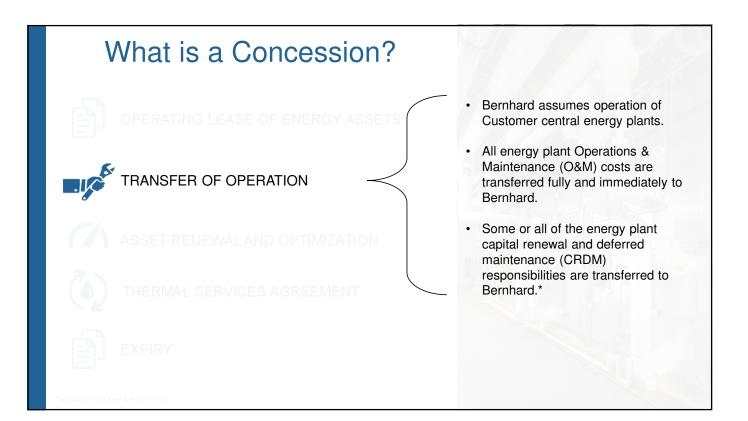
ASSET RENEWAL AND OPTIMIZATION

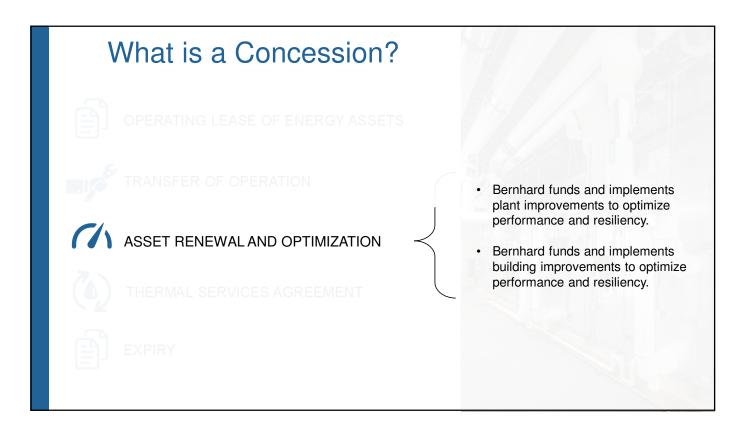


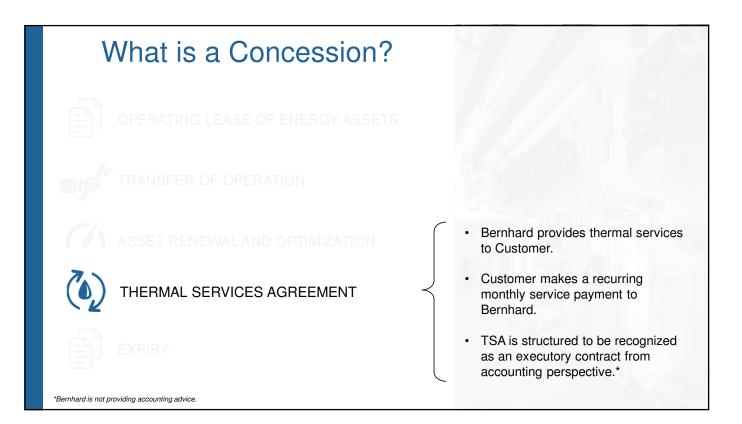
THERMAL SERVICES AGREEMENT

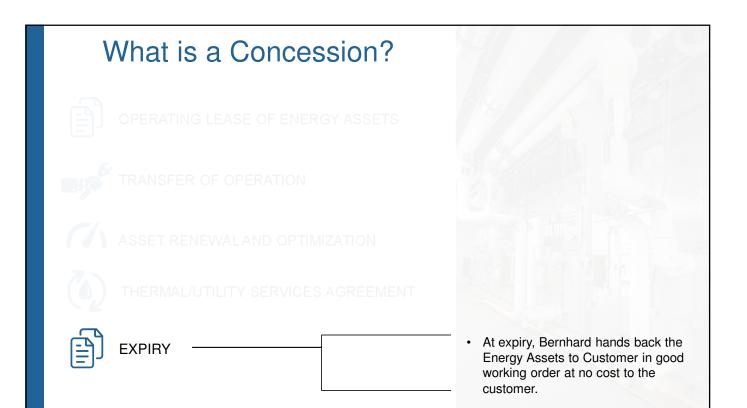










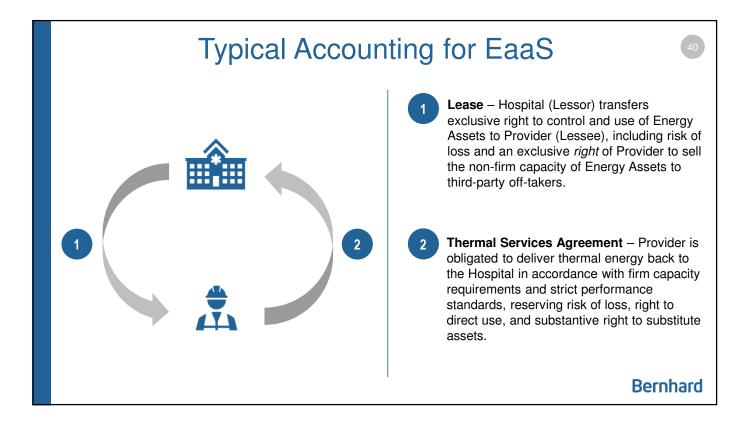




OFF-BALANCE SHEET

The Thermal Services Agreement charges are not recorded on the balance sheet of customer as debt. Off-Balance Sheet accounting requires:

- The Concession Agreement must be accounted for as a lease of the Energy Assets from the customer to the provider.
- The Thermal Services Agreement must be accounted for as a service contract (not a lease of the Energy Assets provider to the customer).



POLLING QUES Key financial metric?	STION:
1. EBIDA	1. Days' Cash on Hand
2. Operating Margin	2. Long-Term Debt/Capitalization
	Text your vote to (808) 745-1404 Text D Days' Cash on Hand Text D Long-Term Debt/Capitalization
	$\exists \equiv ($

Journal Entries for Transaction

#	Item	Debit	Credit
1	Advance Lease Payment (Immediate)	Assets (Cash)	Liabilities (Deferred Revenue – Pre-Paid Rent)
2	Advance Lease Payment (Over Term)	Deferred Revenue (Pre-Paid Rent)	Revenue
3	EOS Design-Build Agreement (Non-Energy and Building Asset Improvements)	Assets (Fixed)	Assets (Cash)
4	EAI Design-Build Agreement (Energy Asset Improvements)	N/A*	N/A*
5	Thermal Services Agreement	Expense as Incurred	Cash

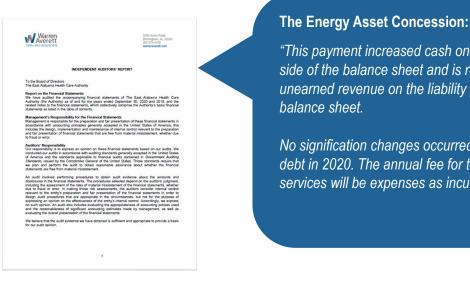
*Treated as tenant improvements.

Bernhard

42

	Income Statement	
Category	Item	Impact
Operating Revenue	Revenue from Amortization of Total Advance Lease Payment	Increase (+)
	Additional Revenue from Core Business Investment	Increase (+)
	Operation and Maintenance Expense Savings	Decrease (-)
Operating Expense (before depreciation & interest)	Purchased Utility Expense Savings	Decrease (-)
	Thermal Services Agreement	Increase (+)
	Depreciation of Improvements	Increase (+)
Depreciation Expense	Depreciation of Core Business Investments	Increase (+)
	Depreciation of Avoided Capital	Decrease (-)
Interest Expense	Interest Savings due to Avoided Capital	Increase (+)
	Net Income	Increase



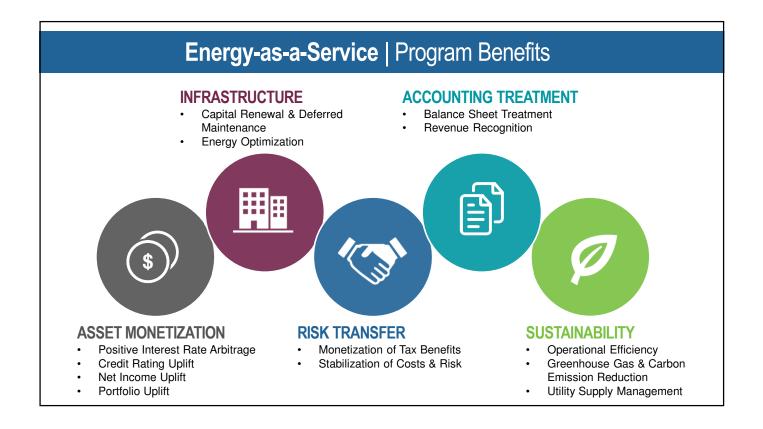


"This payment increased cash on the asset side of the balance sheet and is recorded as unearned revenue on the liability portion of the

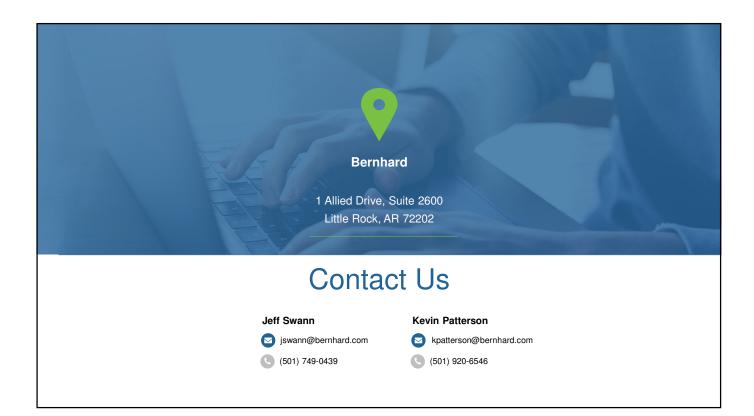
No signification changes occurred in long-term debt in 2020. The annual fee for the thermal services will be expenses as incurred."

eamc#









Appendix	49
Slide 9: https://www.cnn.com/2021/08/04/us/arkansas-health-care-burnout/index.html ;	
https://www.wsj.com/articles/tight-labor-market-returns-the-upper-hand-to-american-workers-11624210501.	
 Slide 10: <u>https://www.nytimes.com/2021/02/18/us/texas-hospitals-power-water.html;</u> 	
https://www.epa.gov/climate-indicators/weather-climate;	
https://www.healthcarefinancenews.com/news/california-wildfires-continue-impact-hospitals-other-healthcare	_
facilities-containment-inches; https://www.ksla.com/2021/02/17/shreveport-area-hospitals-without-water-due-	
extreme-winter-weather/;	
• Slide 11: https://www2.deloitte.com/us/en/insights/industry/power-and-utilities/organizational-energy-use-100	_
percent-renewables.html	
Slide 12: KaufmanHall - COVID-19 in 2021: The Potential Effect on Hospital Revenues, February 2021	
Slide 13: "Facilities & Infrastructure Projects" – Presentation at ASHE 2019 by York Chan with Advocate Auro	ra
Health	
Slide 14: Moody's - 2021 outlook for US not-for-profit and public healthcare, 11 December 2020	